

Exhibit C
'tzlas01.sql'

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-- $Header: tzlbac14.sql ...
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REMARK >>> Set System Variables For Current SQLPlus Session <<<
SET FEEDBACK 1
SET NUMWIDTH 10
SET PAGESIZE 24
SET LINESIZE 80
SET TRIMSPOOL ON
SET TAB OFF
SET DEFINE '+''
SET ECHO ON

CONNECT SCOTT/TIGER

CREATE TABLE abc
(COL1 VARCHAR2(45));

CREATE TABLE jing
(COL1 VARCHAR2(45));

GRANT ALL ON abc TO LBACSYS;

-- This should not be allowed as the user is SCOTT
EXECUTE LBAC_SYSDBA.CREATE_POLICY('simple','lbac$test1','raghu');

CONNECT LBACSYS/LBACSYS

-- Create policies in database

EXECUTE LBAC_SYSDBA.CREATE_POLICY('simple','lbac$test1','raghu');
EXECUTE LBAC_SYSDBA.CREATE_POLICY('complex','lbac$test1','rghu');
EXECUTE LBAC_SYSDBA.CREATE_POLICY('sile','lbac$test1');

-- Error Conditions
EXECUTE LBAC_SYSDBA.CREATE_POLICY('complex','lbac$test1','aghу');
EXECUTE LBAC_SYSDBA.CREATE_POLICY('dummy','lbac$test1');
EXECUTE LBAC_SYSDBA.CREATE_POLICY('new','lbac$test1','raghu');
EXECUTE LBAC_SYSDBA.CREATE_POLICY('new123','lbac$tt1','xyz');

-- This should not fail ...
EXECUTE
LBAC_SYSDBA.CREATE_POLICY('abcdefghijklmnopqrstuvwxyz','lbac$test1','fdf');

EXECUTE
LBAC_SYSDBA.CREATE_POLICY('abcdefghijklmnopqrstuvwxyz','lbac$test1','fdf');
EXECUTE LBAC_SYSDBA.CREATE_POLICY('india','lbac$test1','fdfefg');

-- Add 5 policies due to max_label_policies default increase from 5 to 10.
EXECUTE LBAC_SYSDBA.CREATE_POLICY('ab1','lbac$test1','vc1');
EXECUTE LBAC_SYSDBA.CREATE_POLICY('ab2','lbac$test1','vc2');
EXECUTE LBAC_SYSDBA.CREATE_POLICY('ab3','lbac$test1','vc3');
EXECUTE LBAC_SYSDBA.CREATE_POLICY('ab4','lbac$test1','vc4');
EXECUTE LBAC_SYSDBA.CREATE_POLICY('ab5','lbac$test1','vc5');

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-- Error Conditions
EXECUTE LBAC_SYSDBA.CREATE_POLICY('abc','lbac$test1','vcx');
EXECUTE LBAC_SYSDBA.CREATE_POLICY('simple');
EXECUTE
LBAC_SYSDBA.CREATE_POLICY('abcdefghijklmnopqrstuvwxyz12345','lbac$test1','ragu')
;

-- Drop extra 5 policies from above.
EXECUTE LBAC_SYSDBA.DROP_POLICY('ab1');
EXECUTE LBAC_SYSDBA.DROP_POLICY('ab2');
EXECUTE LBAC_SYSDBA.DROP_POLICY('ab3');
EXECUTE LBAC_SYSDBA.DROP_POLICY('ab4');
EXECUTE LBAC_SYSDBA.DROP_POLICY('ab5');

-- Let us check the policies created ...
SELECT *
FROM DBA_LBAC_POLICIES
ORDER BY POLICY_NAME;

EXECUTE LBAC_SYSDBA.ENABLE_POLICY('simple');

-- The basic objective from now on is to test the enable/disable procedures ...

EXECUTE LBAC_LABEL_ADMIN.CREATE_LABEL('simple',1,'A,B', TRUE);
EXECUTE LBAC_LABEL_ADMIN.CREATE_LABEL('abcdefghijklmnopqrstuvwxyz',2,'A',
TRUE);

EXECUTE
LBAC_USER_ADMIN.SET_USER_LABELS('abcdefghijklmnopqrstuvwxyz','SCOTT',TO_LABEL_LIST.FROM_CHAR('abcdefghijklmnopqrstuvwxyz',NULL,'A'));

SELECT *
FROM DBA_LBAC_USER_LABELS ORDER BY USER_NAME, POLICY_NAME;

-- Error Conditions
EXECUTE
LBAC_POLICY_ADMIN.APPLY_TABLE_POLICY('abcdefghijklmnopqrstuvwxyz','SCOTT','abc')
;

-- OK now
EXECUTE
LBAC_POLICY_ADMIN.APPLY_TABLE_POLICY('complex','SCOTT','abc','NO_CONTROL');
EXECUTE
LBAC_POLICY_ADMIN.APPLY_TABLE_POLICY('complex','SCOTT','jing','NO_CONTROL');
EXECUTE
LBAC_POLICY_ADMIN.APPLY_TABLE_POLICY('simple','SCOTT','abc','DELETE_CONTROL');
EXECUTE
LBAC_POLICY_ADMIN.APPLY_TABLE_POLICY('simple','SCOTT','EMP','DELETE_CONTROL');
EXECUTE
LBAC_POLICY_ADMIN.APPLY_TABLE_POLICY('sile','SCOTT','jing','DELETE_CONTROL');

CONNECT SCOTT/TIGER

DESC abc;

INSERT INTO abc(col1)

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VALUES('fdfd');

UPDATE abc
SET raghu = LBACSYS.TO_LBAC_LABEL('simple','A,B');

-- Should not allow ...
DELETE FROM abc;

SELECT col1,LABEL_TO_CHAR(raghu)
FROM abc
ORDER BY col1;

-- Error Condition
EXECUTE LBAC_SYSDBA.DISABLE_POLICY('simple');

CONNECT LBACSYS/LBACSYS

EXECUTE LBAC_SYSDBA.DISABLE_POLICY('simple');

-- Error Conditions ...
EXECUTE LBAC_SYSDBA.DISABLE_POLICY('abcdefghijklmnopqrstuvwxyzfd');
EXECUTE LBAC_SYSDBA.DISABLE_POLICY('abcdefghijklmnopqrstuvwxyz','fdf');

-- Should not delete as the disable will be effective from next session only
DELETE FROM SCOTT.abc;

CONNECT SCOTT/TIGER

SELECT col1,LABEL_TO_CHAR(raghu)
FROM abc
ORDER BY col1;

-- Should delete now as the policy is disabled ...
DELETE FROM abc;

SELECT col1,LABEL_TO_CHAR(raghu)
FROM abc
ORDER BY col1;

INSERT INTO abc(col1)
VALUES('123233');

-- Error Condition ...
EXECUTE LBAC_SYSDBA.ENABLE_POLICY('simple');

CONNECT LBACSYS/LBACSYS

EXECUTE LBAC_SYSDBA.ENABLE_POLICY('simple');

-- Error Conditions ...
EXECUTE LBAC_SYSDBA.ENABLE_POLICY('simpler1');
EXECUTE LBAC_SYSDBA.ENABLE_POLICY('simple',FALSE);

-- Should delete now as the enable will be effective only from new session
DELETE FROM SCOTT.abc;

CONNECT SCOTT/TIGER

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-- Expecting no rows ...
SELECT col1,LABEL_TO_CHAR(raghu)
FROM abc
ORDER BY col1;

INSERT INTO abc(col1)
VALUES('1232');

-- Delete should fail ...
DELETE FROM abc;

SELECT col1,LABEL_TO_CHAR(raghu)
FROM abc
ORDER BY col1;

CONNECT LBACSYS/LBACSYS

EXECUTE LBAC_SYSDBA.DROP_POLICY('simple',TRUE);
EXECUTE LBAC_SYSDBA.DROP_POLICY('complex', FALSE);
EXECUTE LBAC_SYSDBA.DROP_POLICY('sile');
EXECUTE LBAC_SYSDBA.DROP_POLICY('abcdefghijklmnopqrstuvwxyz1234');
EXECUTE LBAC_SYSDBA.DROP_POLICY('abcdefghijklmnopqrstuvwxyz');
EXECUTE LBAC_SYSDBA.DROP_POLICY('india');

-- Error Conditions
EXECUTE LBAC_SYSDBA.DROP_POLICY('adfd');
EXECUTE LBAC_SYSDBA.DROP_POLICY('simple',XYZ);

SELECT *
FROM DBA_LBAC_POLICIES
ORDER BY POLICY_NAME;

CONNECT SCOTT/TIGER

-- Simple policy was applied on two tables (abc,emp) the hidden column should
-- be dropped as the TRUE option is set; Policy complex was applied to
-- two tables(abc,jing) and hidden column should not be dropped as the option
-- was set to FALSE; Policy sile was applied to a table (jing) and the hidden
-- column should not be dropped as the default option is FALSE.

DESC abc;
DESC jing;
DESC EMP;

DROP TABLE abc;
DROP TABLE jing;

SET ECHO OFF

EXIT;

```